

Title (en)

PROMOTER ELEMENTS CONFERRING ROOT-PREFERRED GENE EXPRESSION

Title (de)

PROMOTORELEMENTE, WELCHE WURZEL-BEVORZUGTE GENEXPRESSION VERLEIHEN

Title (fr)

ELEMENTS PROMOTEURS CONFERANT UNE EXPRESSION GENIQUE DANS LES RACINES DE MANIERE PREFERENTIELLE

Publication

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Application

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Abstract (en)

[origin: WO9744448A1] This invention relates generally to mechanisms of gene expression in plants and more specifically to regulation of expression of genes in plants in a "tissue-preferred" manner. A method for isolation of transcriptional regulatory elements that contribute to tissue-preferred gene expression is disclosed. Transcriptional regulatory elements isolated using the methods of this invention are demonstrated to direct tissue-preferred gene expression of genes within certain tissues of a plant. DNA molecules representing tissue-preferred transcriptional regulatory elements, vectors comprising said DNA molecules and transgenic plants comprising said vectors are demonstrated. Said transcriptional regulatory units are utilized to drive tissue-preferred expression of a gene that confers a selective advantage upon a plant.

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